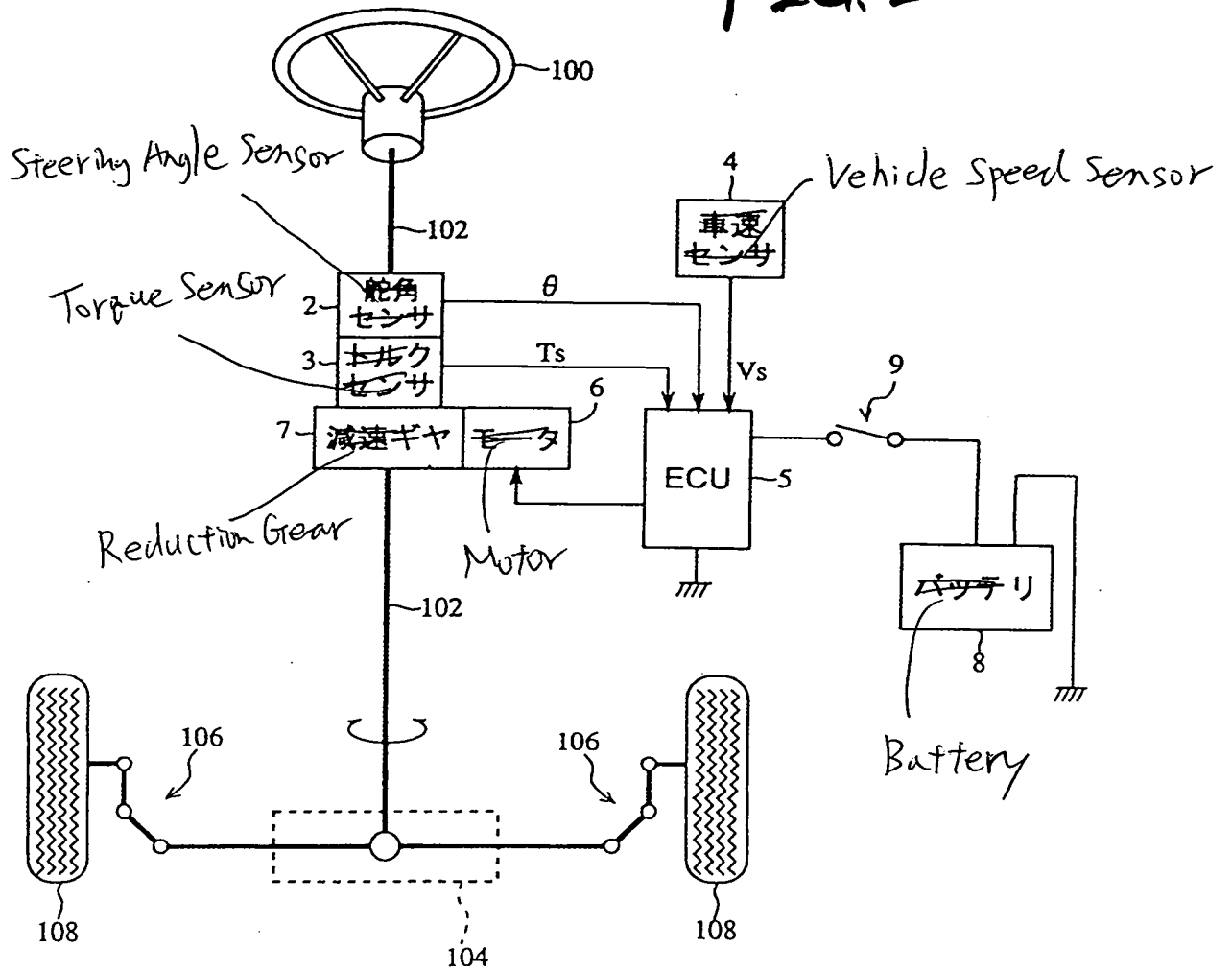


FIG. 1



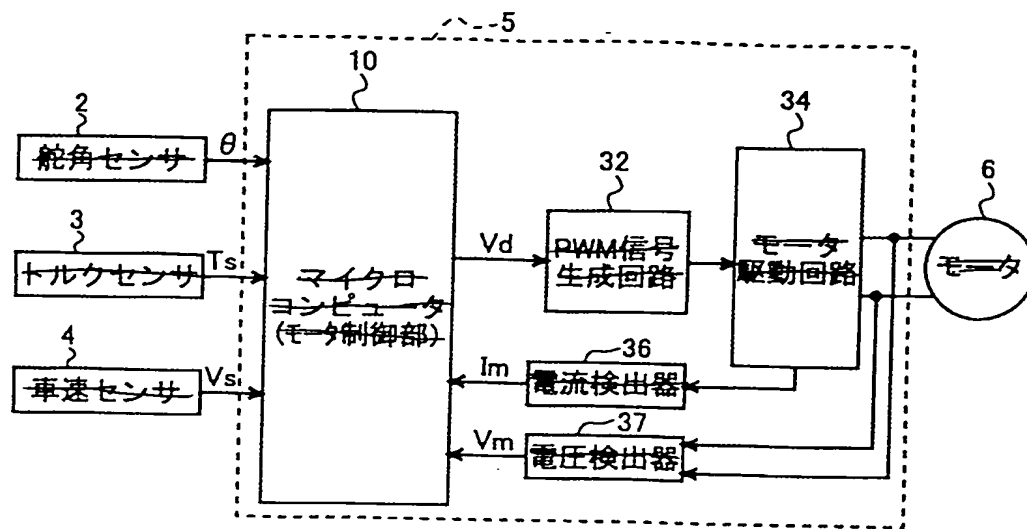


FIG. 2

2 ... Steering angle sensor

3 ... Torque sensor

4 ... Vehicle speed sensor

6 ... Motor

10 ... Microcomputer (Motor control section)

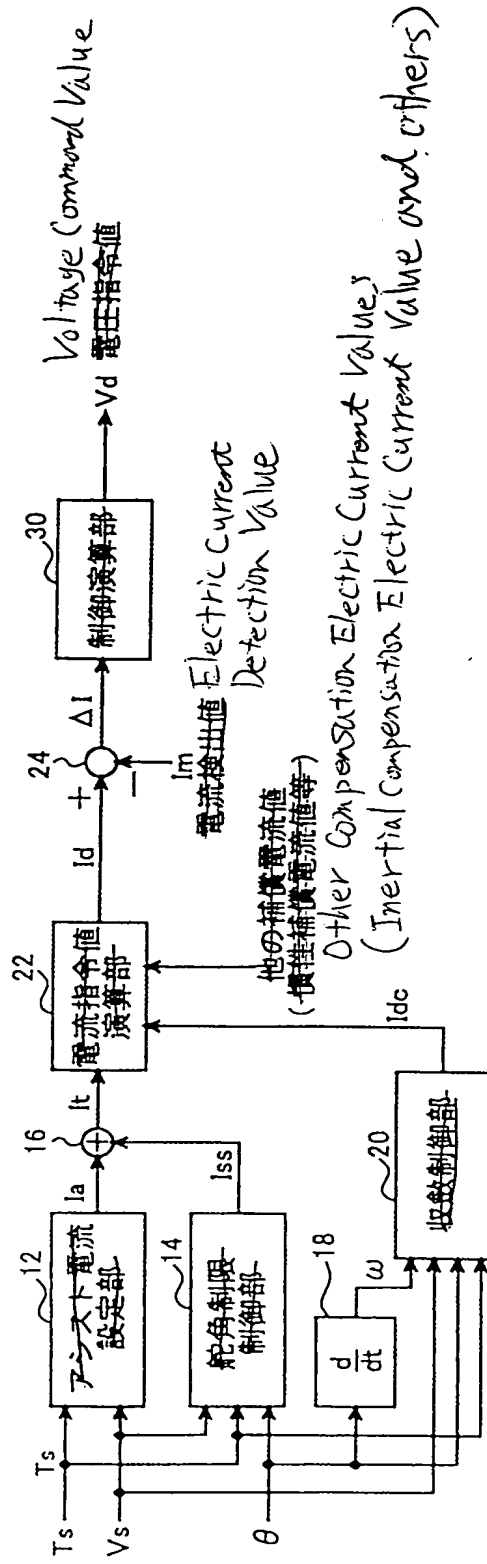
32 ... PWM signal generating circuit

34 ... Motor drive circuit

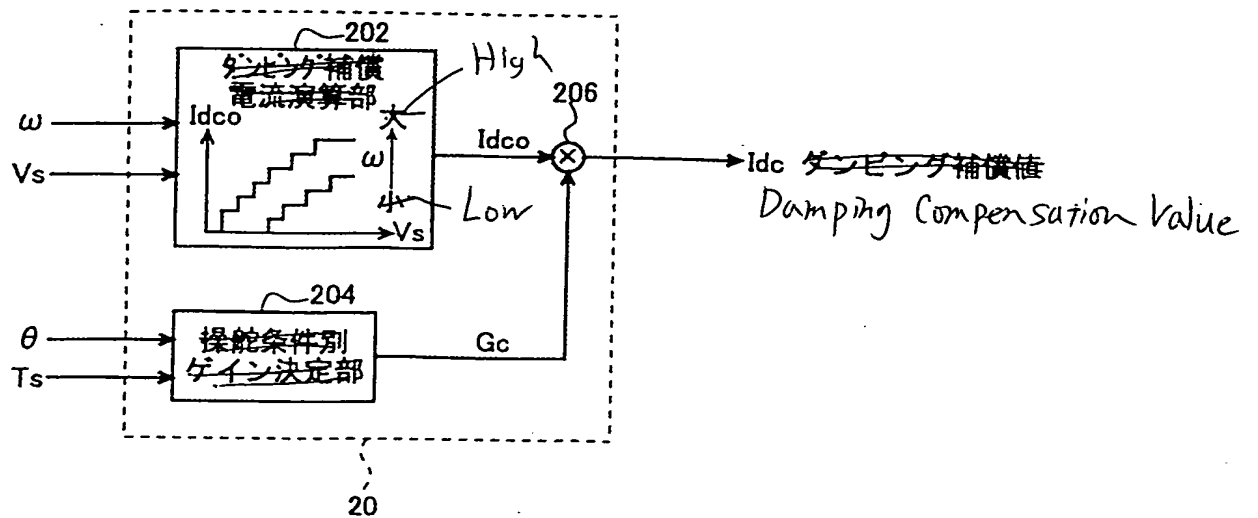
36 ... Electric current detector

37 ... Voltage detector

FIG. 3



- 12 Assisting electric current setting section
- 14 Steering angle restricting control section
- 20 Convergence control section
- 22 Electric current command value calculating section
- 30 Control calculating section



202 Damping compensation electric current calculating section

204 Gain deciding section for each steering condition

FIG. 4

Fig. 5A

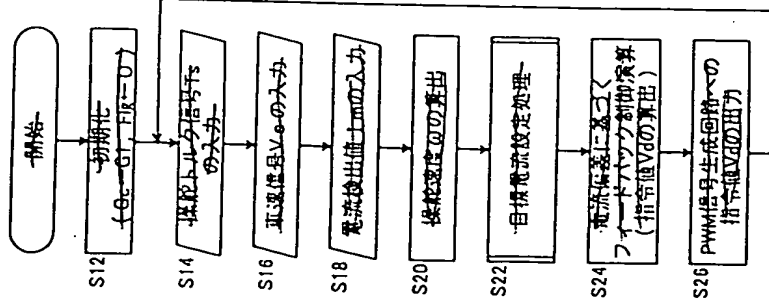


Fig. 5B

S22

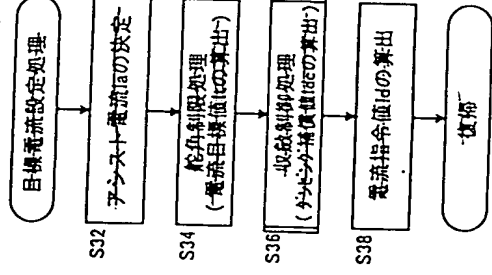


Fig. 5A

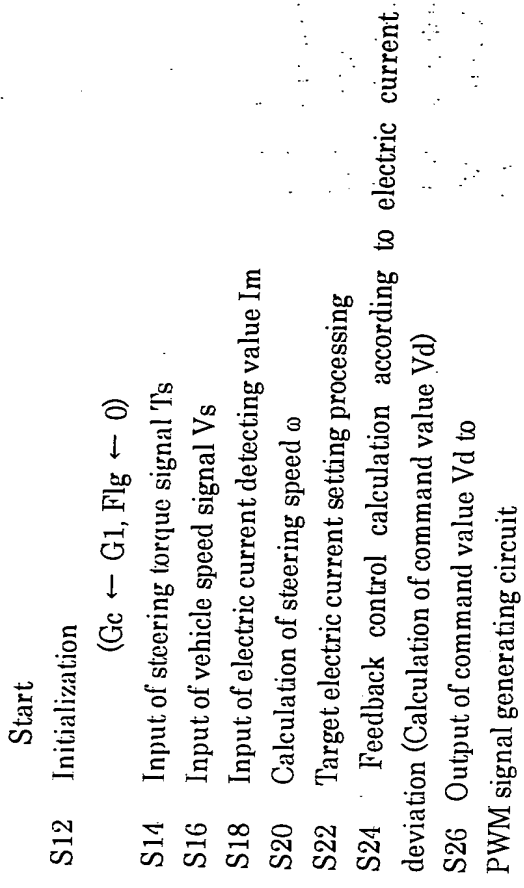


Fig. 5B

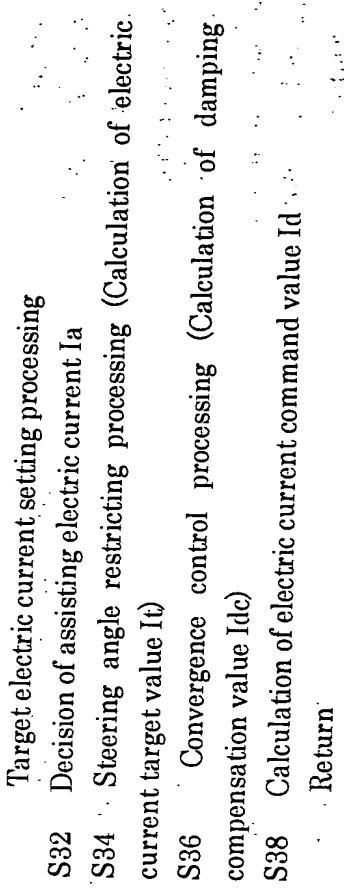


Fig. 6A

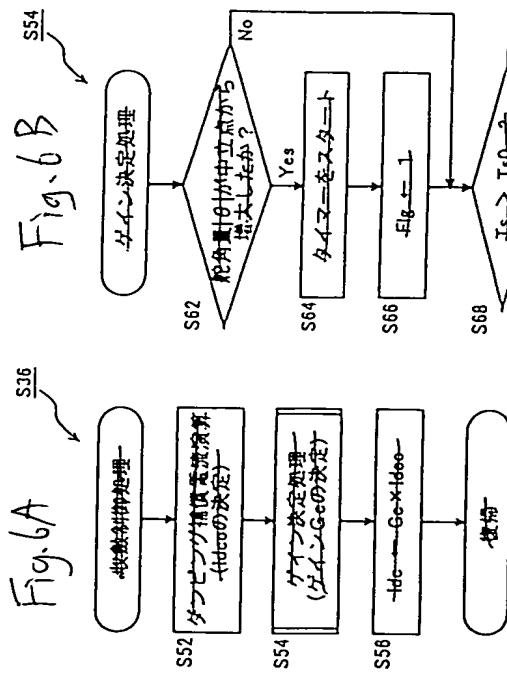


Fig. 6B

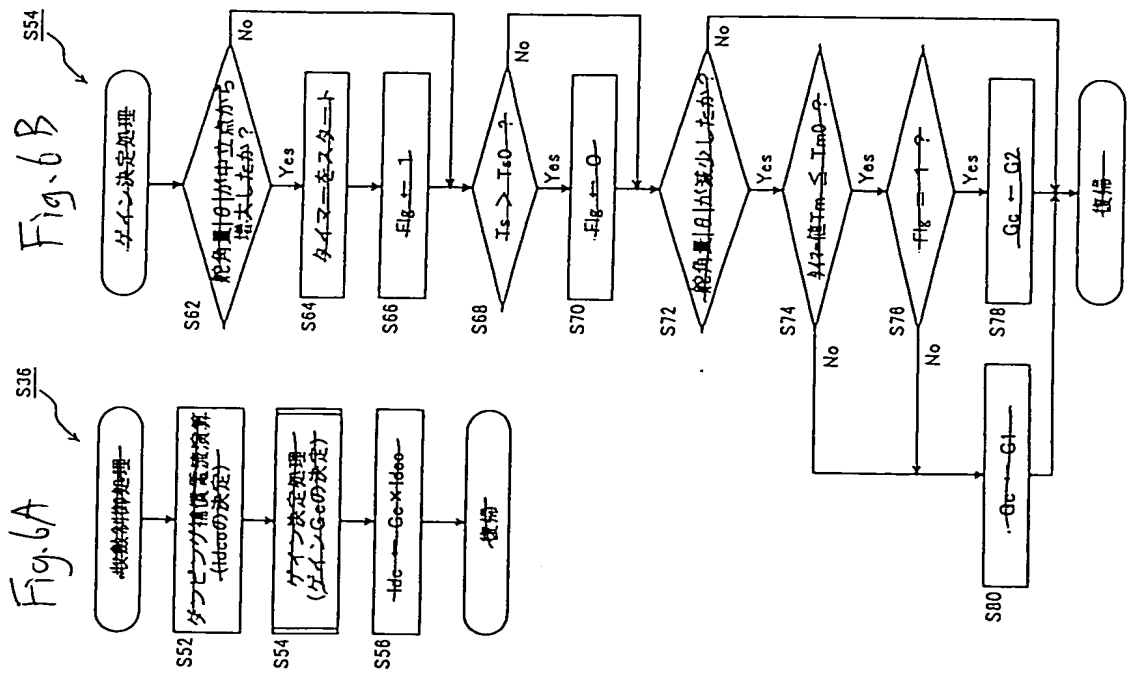


Fig. 6A

Convergence control processing
 S52 Damping compensation electric current calculation (Decision of Idco)
 S54 Gain deciding processing (Decision of gain Gc)
 S56 Ids ← Gc × Idco
 Return

Fig. 6B

Gain deciding processing
 S62 Has steering angle quantity |θ| increased from neutral point?
 S64 Start timer
 S66 Flg ← 1
 S68 Ts > Ts0?
 S70 Flg ← 0
 S72 Has steering angle quantity |θ| decreased?
 S74 Timer value Tm ≤ Tm0?
 S76 Flg = 1?
 S78 Gc ← G2
 S80 Gc ← G1
 Return